# **Northgate Mall Parking Lot**

Natural System Feasibility Study

### **Question:**

How can natural drainage be integrated into parking lot redevelopment to facilitate successful retail growth and benefit creek health?

Seattle Public Utilities October 25, 2004

### Background and purpose of evaluation

- Northgate Framework Resolution
  - SPU to identify "natural drainage strategies...that can be incorporated into development projects"
- Simon Development Agreement
  - "Simon will consider incorporating natural drainage techniques into its approach to required landscaping and stormwater management"

### **SPU Business Case Process**

- Costs—construction and lifecycle
- Benefits—drainage, plus social, environmental
- Recommend potential incentives such as
  - regulatory credit
  - discounted products
  - rate reductions

## Key evaluation criteria

- Technically sound and feasible
- Cost-effective
- Maintain proposed number of surface parking stalls
- Respect tenant agreements
- Approved by SPU's Asset Management Committee

City of Seattle
Dept. of Planning & Development
Northgate Stakeholders Group Meeting Materials
Northgate Mall Natural Systems Feasibility Study, Oct. 26, 2004

## Site conditions, project proposal and key parameters

- Redevelop 20 acres of parking
- Add 6 building pads
- Slopes 5-8% towards south west
- Maintain 4 spaces/1,000 sf parking ratio

## Code requirements

#### Stormwater

- Detain 2, 25, 100 year storm
- Treat 6-month water quality storm

### **Parking**

- Stall and aisle size requirements
- 35% compact stalls

### Landscape

 10' landscaped pedestrian pathways separating parking areas

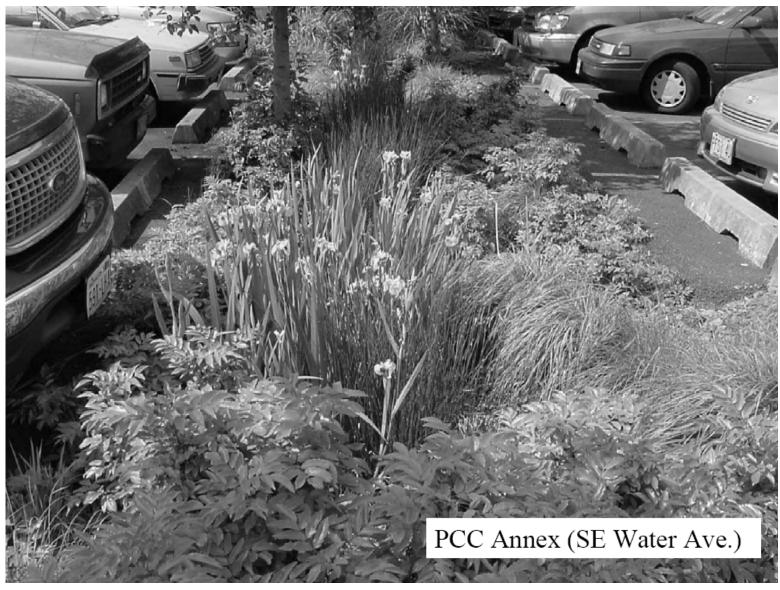
## NDS overview, goals and technologies

- Reduce volume
- Manage everyday storms
- Dispersed systems
- Integrated into site design
- Infiltrate, slow and filter water

## Strategies generated by workshop

Goal: eliminate or reduce centralized treatment facility by integrating natural drainage systems as follows:

- 1. Use existing landscape planters
- 2. Swales integrated into parking aisles
- 3. Unit pavers along retail drive
- 4. Porous asphalt in lower use zones



City of Portland Stormwater Management Manual City of Seattle
Dept. of Planning & Development
Northgate Stakeholders Group Meeting Materials
Northgate Ma Na was sems passiving 6, 20 long retail drive







### Next steps

- Evaluate feasibility
- Evaluate performance
- Evaluate cost and benefits
- Develop recommendations and incentives

### Schedule

- 10/25 Subcommittee presentation
- 10/26 Stakeholder presentation
- 11/9 Community Forum and Discussion
- 11/18 Stakeholder Advisory Memo due
- 12/8 SPU Recommendation Approval